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(54) Title: USE OF TAUROLIDINE OR TAURULTAM FOR THE MANUFACTURE OF A MEDICAMENT FOR THE TREAT-MENT OF TUMORS OF THE CENTRAL NERVOUS SYSTEM

(57) Abstract: The invention provides a method of inhibiting tumor growth in a mammal, by administering to the mammal composition containing taurolidine, taurultam, or a biologically active derivative thereof. The composition is administered to directly contact a tumor cell at a dose sufficient to induce cell death by apoptosis.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K31/541

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ, CHEM ABS Data, MEDLINE, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT							
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant lo claim No.					
Х	WO 94 03174 A (ED GEISTLICH SÖHNE AG. FÜR CHEMISCHE INDUSTRIE) 17 February 1994 (1994-02-17) claims 1,3,4	32,33					
X	WO 92 00743 A (ED GEISTLICH SÖHNE AG FÜR CHEMISCHE INDUSTRIE) 23 January 1992 (1992-01-23) the whole document	1-36					
X	WO 90 06138 A (ED GEISTLICH SÖHNE A.G. FÜR CHEMISCHE INDUSTRIE) 14 June 1990 (1990–06–14) claims 1–5	32,33					
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Date of the actual completion of the international search 26 November 2001	Date of mailing of the international search report 03/12/2001
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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category *	Citation of document, with indication where appropriate, of the relevant passages	nelevant to claim No.
E	EP 1 066 830 A (ED. GEISTLICH SÖHNE AG. FÜR CHEMISCHE INDUSTRIE) 10 January 2001 (2001-01-10) the whole document	1-36
X	WO 98 52572 A (OKLAHOMA MEDICAL RESEARCH FOUNDATION) 26 November 1998 (1998-11-26) claims 1-16 	1-36

1

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCI/US 00/33103

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 9403174	A	17-02-1994	CA EP WO	2141056 A1 0652753 A1 9403174 A1	17-02-1994 17-05-1995 17-02-1994
WO 9200743	Α	23-01-1992	JP WO EP JP	7509483 T 9200743 A1 0491018 A1 5500973 T	19-10-1995
WO 9006138	Α	14-06-1990	CA DE DE EP ES WO JP JP US	2004166 A1 68913991 D1 68913991 T2 0446262 A1 2063333 T3 9006138 A1 2873082 B2 4502414 T 5819748 A	31-05-1990 21-04-1994 14-07-1994 18-09-1991 01-01-1995 14-06-1990 24-03-1999 07-05-1992 13-10-1998
EP 1066830	Α	10-01-2001	EP JP	1066830 A2 2001010976 A	10-01-2001 16-01-2001
WO 9852572	Α	26-11-1998	AU AU EP WO US	734460 B2 7590698 A 0983069 A1 9852572 A1 6303596 B1	14-06-2001 11-12-1998 08-03-2000 26-11-1998 16-10-2001